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मानक

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IS 11698-1 (2004): ISO Miniature screw threads, Part 1:
Basic profile [PGD 20: Engineering Standards]



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“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक
आई.एस.ओ. मीनियचर पेंच चूड़ियाँ

भाग 1 आधारभूत प्रोफाइल
(पहला पुनरीक्षण)

Indian Standard
ISO MINIATURE SCREW THREADS
PART 1 BASIC PROFILES
(*First Revision*)

ICS 21.040.10

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FOREWORD

This Indian Standard (Part 1) (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Engineering Standards Sectional Committee had been approved by the Medical Instruments, General and Production Engineering Division Council.

This standard (Part 1) was first published in 1986 and was based on ISO/R 1501 - 1970 'Miniature screw threads' and DIN 14 — Part 1 'ISO metric screw thread — Screw threads under 1 mm diameter : Part 1 Basic profile'. ISO/R 1501 - 1970 has been withdrawn and DIN 14 — Part 1 has been revised in 1987. Therefore, this standard (Part 1) has been revised and aligned with DIN 14 — Part 1:1987 'ISO metric screw threads — Screw threads under 1mm diameter : Part 1 Basic profile', issued by DIN, Deutsches Institut für Normung.

This standard is one of the series of Indian Standards on miniature screw threads and being published in four parts. The other three parts in this series are:

Part 2 Basic dimensions for design profile

Part 3 Tolerance

Part 4 Limits of sizes

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

ISO MINIATURE SCREW THREADS

PART 1 BASIC PROFILES

(First Revision)

1 SCOPE

This standard (Part 1) covers the basic profiles of ISO miniature screw threads in the diameter range of less than 1 mm.

2 SYMBOLS

The various symbols used in this standard shall denote the quantities mentioned below against each:

- D = major diameter of internal threads,
- d = major diameter of external threads,
- D_1 = minor diameter of internal threads,
- d_3 = minor diameter of external threads,
- D_2 = pitch diameter of internal threads,

d_2 = pitch diameter of external threads,

P = pitch of screw threads,

H = height of fundamental triangle, and

H_1 = height of basic profile.

3 BASIC PROFILE

The basic profile is the theoretical profile associated with the basic sizes of the major, pitch and minor diameters and shall be as given in Fig. 1. The deviations are applied to these basic sizes.

4 BASIC PROFILE DIMENSIONS

The basic profile dimensions shall be as given in Table 1 read with Fig. 1.

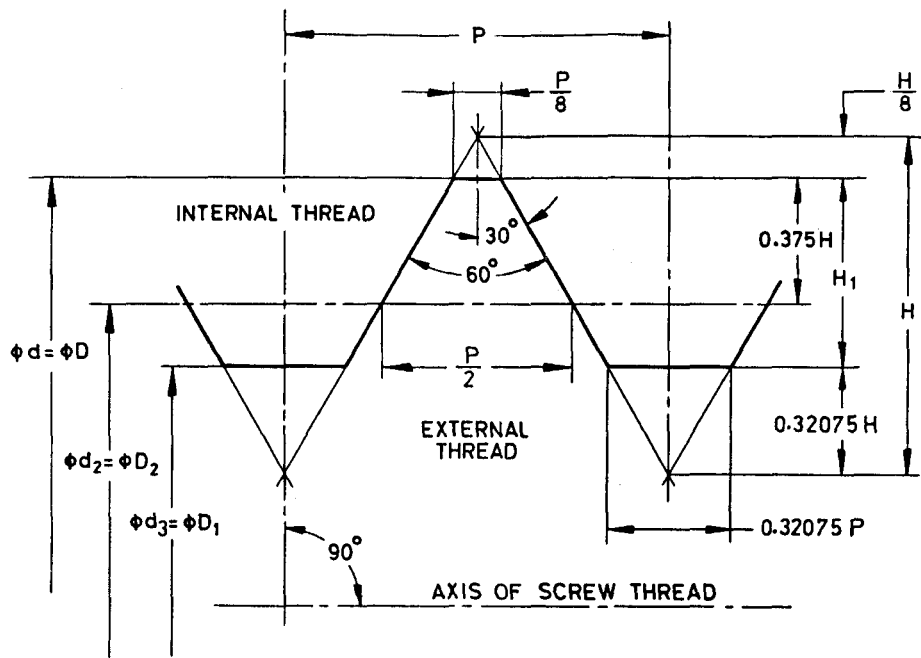


FIG. 1 BASIC PROFILE OF ISO MINIATURE SCREW THREADS

Table 1 Basic Profile Dimensions
(Clause 4)

All dimensions in millimetres.

Sl No.	Pitch P	H	0.144 34 H	H/8 = 0.125 H	0.320 75 H	0.370 37 H	H ₁ = 0.554 25 H	0.375 H
		0.866 03 P	P/8 = 0.125 P	0.108 25 P	0.277 78 P	0.320 75 P	0.48 P	0.324 8 P
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
i)	0.08	0.069 28	0.010 00	0.008 66	0.022 22	0.025 66	0.038 40	0.025 98
ii)	0.09	0.077 94	0.011 25	0.009 74	0.025 00	0.028 86	0.043 20	0.029 23
iii)	0.1	0.086 60	0.012 50	0.010 82	0.027 78	0.032 07	0.048 00	0.032 48
iv)	0.125	0.108 25	0.015 60	0.013 53	0.034 72	0.040 09	0.060 00	0.040 59
v)	0.15	0.129 90	0.018 75	0.016 23	0.041 66	0.048 11	0.072 00	0.048 71
vi)	0.175	0.151 55	0.021 87	0.018 94	0.048 61	0.056 13	0.084 00	0.056 83
vii)	0.2	0.173 20	0.025 00	0.021 65	0.055 56	0.064 15	0.096 00	0.064 95
viii)	0.225	0.194 85	0.028 12	0.024 35	0.062 50	0.072 16	0.108 00	0.073 07

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This Indian Standard has been developed from Doc: No. MGP 20 (467).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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